**PRACTICAL 3**

**Aim: Develop an android app which displays a form to get following information from user. Username, Password, Email Address, Phone Number, Country, State, Gender, Interests, Birth Date, Birth Time Form should be followed by a Button with label “Submit”. When user clicks the button, a message should be displayed on New Activity using Intent to user describing the information entered.**

**Code:**

**JAVA FILE: (MainActivity.java)**

package com.example.practical3;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.EditText;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private EditText usernameEditText, passwordEditText, emailEditText, phoneEditText, countryEditText, stateEditText, birthDateEditText, birthTimeEditText;

private RadioGroup genderRadioGroup;

private CheckBox CheckBox1,CheckBox2,CheckBox3,CheckBox4;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

usernameEditText = findViewById(R.id.*usernameEditText*);

passwordEditText = findViewById(R.id.*passwordEditText*);

emailEditText = findViewById(R.id.*emailEditText*);

phoneEditText = findViewById(R.id.*phoneEditText*);

countryEditText = findViewById(R.id.*countryEditText*);

stateEditText = findViewById(R.id.*stateEditText*);

genderRadioGroup = findViewById(R.id.*genderRadioGroup*);

CheckBox1 = findViewById(R.id.*checkboxOption1*);

CheckBox2 = findViewById(R.id.*checkboxOption2*);

CheckBox3 = findViewById(R.id.*checkboxOption3*);

CheckBox4 = findViewById(R.id.*checkboxOption4*);

birthDateEditText = findViewById(R.id.*birthdateEditText*);

birthTimeEditText = findViewById(R.id.*birthtimeEditText*);

Button submitButton = findViewById(R.id.*submitButton*);

submitButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) **{**

String username = usernameEditText.getText().toString();

String password = passwordEditText.getText().toString();

String email = emailEditText.getText().toString();

String phone = phoneEditText.getText().toString();

String country = countryEditText.getText().toString();

String state = stateEditText.getText().toString();

String gender = ((RadioButton) findViewById(genderRadioGroup.getCheckedRadioButtonId())).getText().toString();

String interests = getInterests();

String birthDate = birthDateEditText.getText().toString();

String birthTime = birthTimeEditText.getText().toString();

String message = "Username: " + username + "\n"

+ "Password: " + password + "\n"

+ "Email: " + email + "\n"

+ "Phone: " + phone + "\n"

+ "Country: " + country + "\n"

+ "State: " + state + "\n"

+ "Gender: " + gender + "\n"

+ "Interests: " + interests + "\n"

+ "Birth-Date: " + birthDate + "\n"

+ "Birth-Time: " + birthTime;

Intent intent = new Intent(MainActivity.this, com.example.practical3.MainActivity2.class);

intent.putExtra("message", message);

startActivity(intent);

}

});

}

private String getInterests() {

StringBuilder interests = new StringBuilder();

if (CheckBox1.isChecked()) {

if (CheckBox1.isChecked()) {

interests.append("Gaming, ");

}

if (CheckBox2.isChecked()) {

interests.append("Dancing, ");

}

if (CheckBox3.isChecked()) {

interests.append("Singing, ");

}

if (CheckBox4.isChecked()) {

interests.append("Reading, ");

}

if (interests.length() > 0) {

interests.delete(interests.length() - 2, interests.length());

}

**return interests.toString();**

**}**

**return null;**

**}**

**}**

**XML FILE: (activity\_main.xml)**

*<?*xml version="1.0" encoding="utf-8"*?>*

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="15dp"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text=" Name: Angat Shah \n Enrollment No: 202203103510097 \n Branch: B.Tech CSE"

tools:ignore="MissingConstraints" />

<EditText

android:id="@+id/usernameEditText"

android:hint="USERNAME"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="17dp"/>

<EditText

android:id="@+id/passwordEditText"

android:hint="PASSWORD"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="textPassword"/>

<EditText

android:id="@+id/emailEditText"

android:hint="EMAIL ADDRESS"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="textEmailAddress"/>

<EditText

android:id="@+id/phoneEditText"

android:hint="PHONE NUMBER"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="phone"/>

<EditText

android:id="@+id/countryEditText"

android:hint="COUNTRY"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"/>

<EditText

android:id="@+id/stateEditText"

android:hint="STATE"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"/>

<RadioGroup

android:id="@+id/genderRadioGroup"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="GENDER:"

android:textSize="20dp"/>

<RadioButton

android:id="@+id/maleRadioButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="MALE"/>

<RadioButton

android:id="@+id/femaleRadioButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="FEMALE"/>

</RadioGroup>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="INTERESTS"

android:textSize="20dp"/>

<LinearLayout

android:id="@+id/checkBoxContainer"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<CheckBox

android:id="@+id/checkboxOption1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Gaming"/>

<CheckBox

android:id="@+id/checkboxOption2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Dancing"/>

<CheckBox

android:id="@+id/checkboxOption3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Singing"/>

<CheckBox

android:id="@+id/checkboxOption4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Reading"/>

</LinearLayout>

<EditText

android:id="@+id/birthdateEditText"

android:hint="BIRTH DATE"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="date"/>

<EditText

android:id="@+id/birthtimeEditText"

android:hint="BIRTH TIME"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="time"/>

<Button

android:id="@+id/submitButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="SUBMIT"

android:textSize="25dp"

android:layout\_marginTop="40dp"

android:layout\_gravity="center"/>

</LinearLayout>

</RelativeLayout>

**JAVA FILE: (MainActivity2.java)**

package com.example.practical3;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main2*);

Intent intent = getIntent();

String message = intent.getStringExtra("message");

TextView messageTextView = findViewById(R.id.*messageTextView*);

messageTextView.setText(message);

}

}

**XML FILE: (activity\_main2.xml)**

*<?*xml version="1.0" encoding="utf-8"*?>*

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity2"

android:padding="15dp">

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="10dp"

android:text=" Name: Angat Shah \n Enrollment No.: 202203103510097 \n Branch: B.Tech CSE"/>

<TextView

android:id="@+id/messageTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerInParent="true"

android:textSize="18sp"

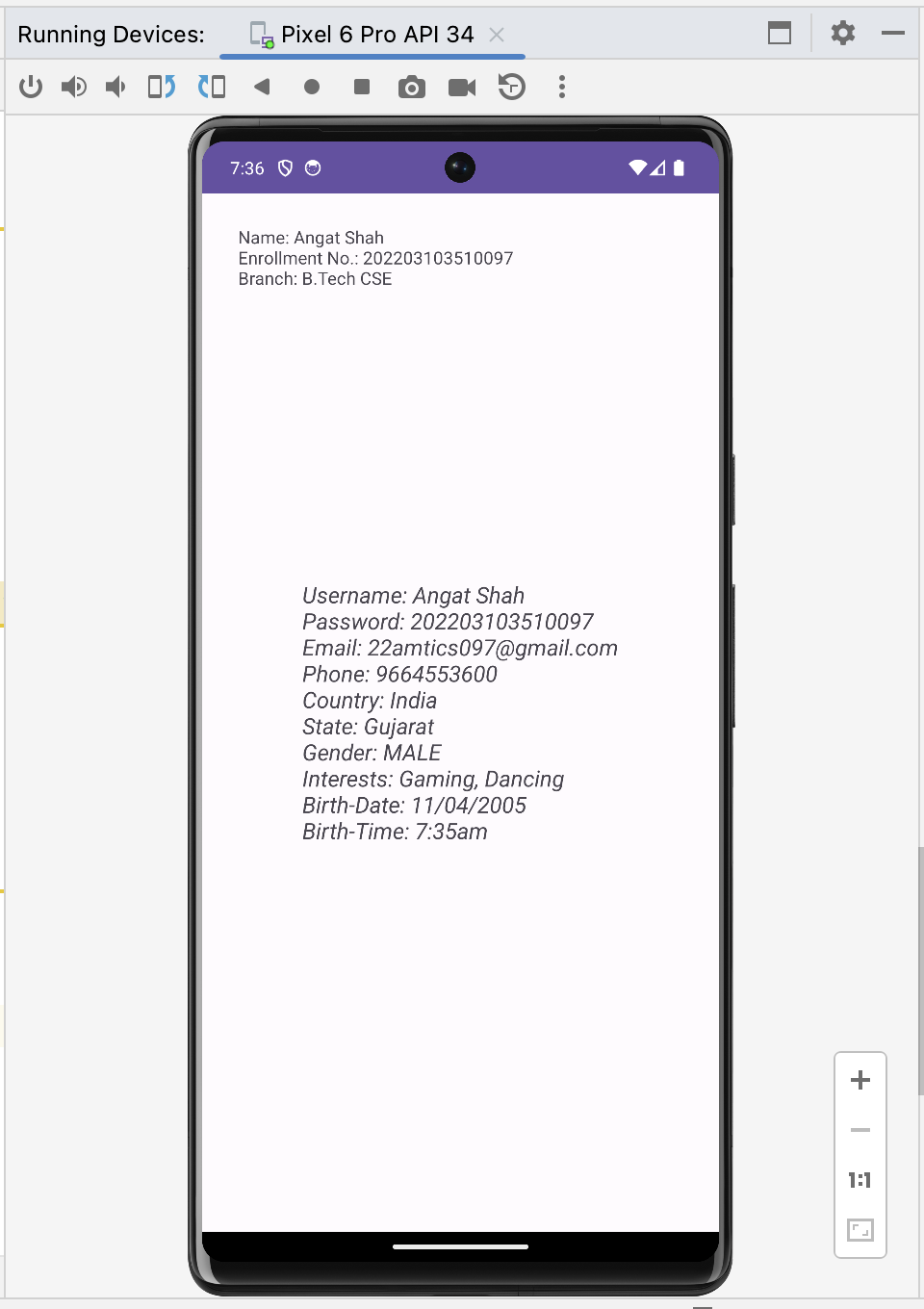
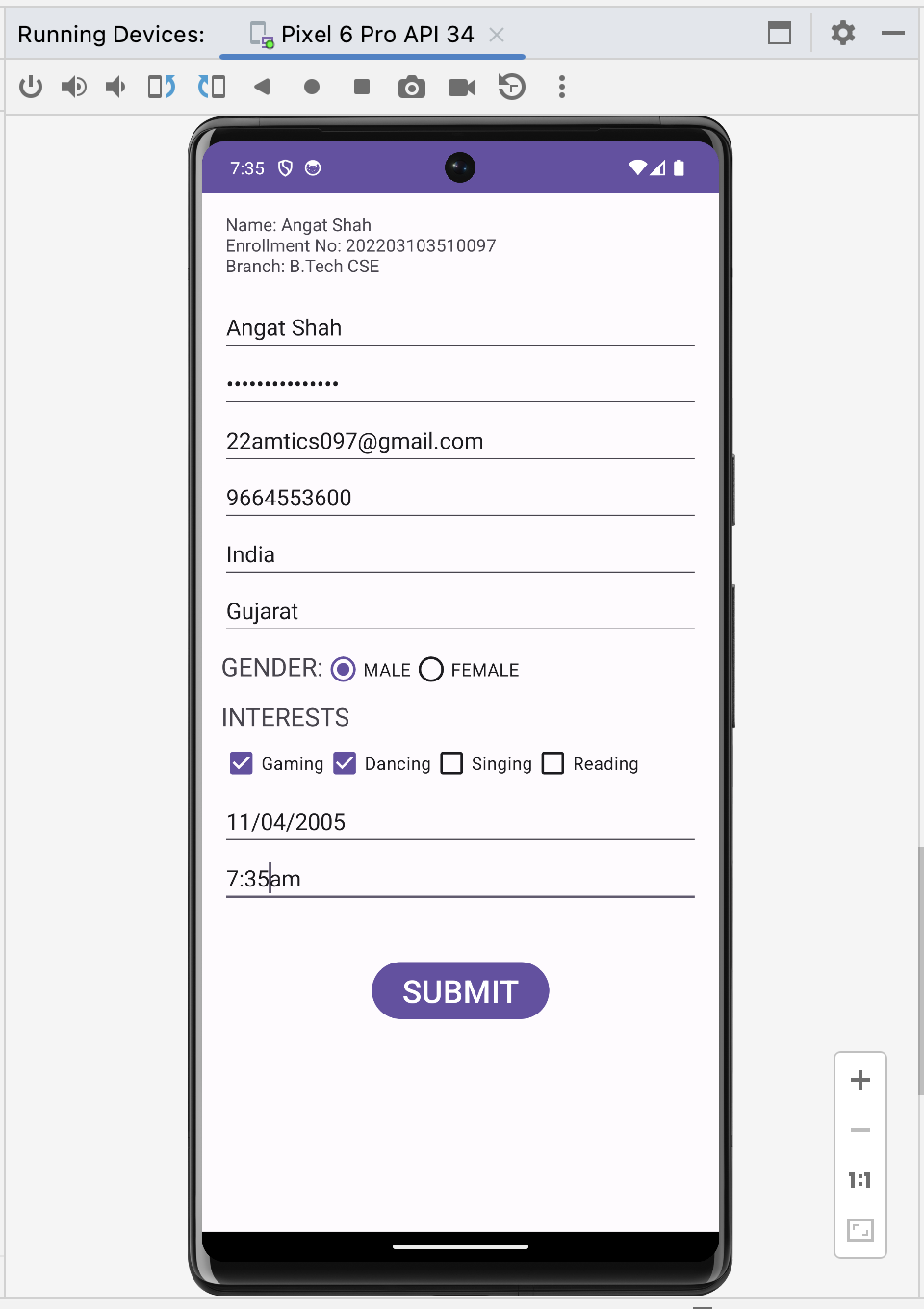
android:text="USER INFORMATION"

android:textStyle="italic"

android:padding="5dp"/>

</RelativeLayout>

**Output:**

****